PATENT APPLICATION

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Inventor(s):   Peter M. Maddocks et al.

Application No.: 09/773,118

Filing Date: 01-31-2001

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Examiner: Insun Kang

Group Art Unit: 2193

Title: **Method and Apparatus for Analyzing Machine Control Sequences**

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PO Box 1450
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TRANSMITTAL OF APPEAL BRIEF

Transmitted herewith is the Appeal Brief in this application with respect to the Notice of Appeal filed on ___07-07-2006___.

The fee for filing this Appeal Brief is (37 CFR 1.17(c)) $500.00.

(complete (a) or (b) as applicable)

The proceedings herein are for a patent application and the provisions of 37 CFR 1.136(a) apply.

☐ (a) Applicant petitions for an extension of time under 37 CFR 1.136 (fees: 37 CFR 1.17(a)-(d)) for the total number of months checked below:

☐ 1st Month $120	☐ 2nd Month $450	☐ 3rd Month $1020	☐ 4th Month $1590

☐ The extension fee has already been filed in this application.

☐ (b) Applicant believes that no extension of time is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition and fee for extension of time.

Please charge to Deposit Account 08-2025 the sum of ___$ 500___. At any time during the pendency of this application, please charge any fees required or credit any over payment to Deposit Account 08-2025 pursuant to 37 CFR 1.25. Additionally please charge any fees to Deposit Account 08-2025 under 37 CFR 1.16 through 1.21 inclusive, and any other sections in Title 37 of the Code of Federal Regulations that may regulate fees. A duplicate copy of this sheet is enclosed.

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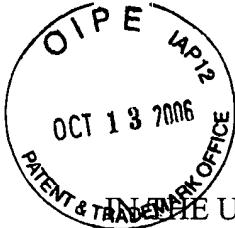
THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants:	Peter M. Maddocks et al.	§	Art Unit:	2193
		§		
Serial No.:	09/773,118	§		
		§	Examiner:	Insun Kang
Filed:	January 31, 2001	§		
		§		
For:	Method and Apparatus for	§	Atty. Dkt. No.:	10004943-1
	Analyzing Machine Control	§		(HPC.0251US)
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APPEAL BRIEF PURSUANT TO 37 C.F.R § 41.37

Sir:

The final rejection of claims 1, 2, 5-15, 19-22, 34, 35, 39, 41, 42, 44, and 46-56 is hereby

appealed.

I.   REAL PARTY IN INTEREST

The real party in interest is the Hewlett-Packard Development Co., L.P..

II.   RELATED APPEALS AND INTERFERENCES

None.

III.   STATUS OF THE CLAIMS

Claims 1, 2, 5-15, 19-22, 34, 35, 39, 41, 42, 44, and 46-56 have been finally rejected and

are the subject of this appeal.

Claims 3, 4, 16-18, 23-33, 36-38, 40, 43, and 45 have been cancelled.

IV.   STATUS OF AMENDMENTS

No amendment after final has been submitted.

V.   SUMMARY OF THE CLAIMED SUBJECT MATTER

The following provides a concise explanation of the subject matter defined in each of the independent claims involved in the appeal, referring to the specification by page and line number and to the drawings by reference characters, as required by 37 C.F.R. § 41.37(c)(1)(v). Each element of the claims is identified by a corresponding reference to the specification and drawings where applicable. Note that the citation to passages in the specification and drawings for each claim element does not imply that the limitations from the specification and drawings should be read into the corresponding claim element.

Independent claim 1 recites an apparatus for providing a graphical user interface (GUI) comprising:

> logic configured to execute GUI generation code (Fig. 1:20) and GUI user interaction handling code (Fig. 1:30; Spec., 4:5-15); and

> a display device (Fig. 1:11) in communication with said logic, wherein execution of the GUI generation code by said logic causes a first window (Fig. 3) and a second window (Fig. 6:71, 72) to be displayed on the display device, said first window presenting a first panel (Fig. 3:36) configured to present plural devices and associated commands of a sequence as a hierarchical tree structure, each of the devices in the sequence being at a different hierarchical level than a hierarchical level of one or more commands associated with the device, the first window presenting a second panel (Fig. 3:35) configured to present one or more available commands and devices for adding commands and devices to the sequence (Spec., 5:17-7:2), and said second window presenting results of execution of the sequence (Spec., 8:12-12:14).

Independent claim 14 recites a method for enabling a user to analyze results of execution of a sequence, the sequence including devices and associated commands, the method comprising:

presenting a first option that enables a user to open a first window (Fig. 3; Spec., 4:10-15);

displaying the first window (Fig. 3) responsive to selection of the first option, the first window containing a first portion (Fig. 3:36) displaying the sequence and a second portion (Fig. 3:35) displaying a set of one or more available commands for inserting into the displayed sequence (Spec., 5:17-7:2);

presenting a second option (Fig. 3:31) that enables execution of the sequence (Spec., 8:18-22); and

displaying, in a second window (Fig. 6:71, 72), results of execution of the sequence in response to selection of the second option, the results displayed containing the commands in the sequence and information identifying devices associated with the commands (Spec., 8:12-12:14).

Independent claim 34 recites an apparatus, comprising:

a processor (Fig. 1:10) configured to execute logic configured to generate a graphical user interface (GUI), logic (Fig. 1:30) configured to interact with at least one human to machine interface, and logic configured to generate commands applied to control systems within one or more remote devices (Spec., 4:7-26); and

a display device (Fig. 1:11) in communication with said processor, wherein when said processor executes the logic configured to generate the GUI, a first window (Fig. 3) is displayed on the display device that displays both a sequence in a first portion (Fig. 3:36) of the first window and a list of one or more commands in a second portion (Fig. 3:35) of the first window, the displayed sequence being in a hierarchical tree structure in which plural devices and associated commands are at different hierarchical levels (Spec., 5:17-7:2)

wherein said first window presents an option (Fig. 3:31), the selection of which executes the sequence (Spec., 8:18-22),

wherein when a second option (Fig. 6:73, 74) is selected, the display device displays a second window (Fig. 6:72) displaying summary data regarding execution of the sequence (Spec., 8:12-12:14).

Independent claim 46 recites a computer-readable medium storing a computer program for generating a graphical user interface (GUI), the program when executed causing a computer to:

> display (Fig. 3:36) a sequence of steps on a display device (Fig. 1:11), the steps including respective devices and commands (Spec., 5:17-7:2);

> display (Fig. 3:35) at least one of a list of available devices and a list of available commands that are insertable into the sequence for editing the sequence in response to selection of a displayed first option (Fig. 3:38; Spec., 5:17-7:2);

> activate execution of the sequence in response to selection of a displayed second option (Fig. 3:31; Spec., 8:18-22); and

> display results of the execution of the sequence in a first window (Fig. 6:72; Spec., 8:12-12:14).

VI. GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

A. **Claims 1, 2, 5-15, 19-22, 39, 41, 42, 44, and 46-56 Rejected Under 35 U.S.C. § 102 Over U.S. Patent No. 6,298,474 (Blowers).**

B. **Claims 34 And 35 Rejected Under 35 U.S.C. § 103 Over Blowers In View Of U.S. Patent No. 6,587,969 (Weinberg).**

VII. ARGUMENT

The claims do not stand or fall together. Instead, Appellant presents separate arguments for various independent and dependent claims. Each of these arguments is separately argued below and presented with separate headings and sub-headings as required by 37 C.F.R. § 41.37(c)(1)(vii).

A. Claims 1, 2, 5-15, 19-22, 39, 41, 42, 44, and 46-56 Rejected Under 35 U.S.C. § 102 Over U.S. Patent No. 6,298,474 (Blowers).

1. Claims 1, 2, 5, 8, 10, 13, and 41.

Claim 1 recites, *inter alia*, logic to cause display of first and second windows, where the first window presents a first panel configured to present a sequence as a hierarchical tree structure, where the sequence includes devices and associated commands, and each of the devices in the sequence is at a different hierarchical level than a hierarchical level of the one or more commands associated with the device. Moreover, the first window has a second panel configured to present one or more available commands and devices for adding commands and devices to the sequence, and the second window presents results of execution of the sequence.

With respect to independent claim 1, the Examiner cited mainly to the following passage of Blowers: column 3, lines 14-35 (which is in the Summary section of Blowers). *See* 4/10/2006 Office Action at 3. The cited passage of Blowers refers to a method that includes developing a graphical, control-flow structure such as a tree structure and associated application software for use in a machine vision system. The cited passage of Blowers also mentions that the method further includes the step of displaying graphical representations of possible hardware and possible machine vision tasks. The display of graphical representations of possible hardware and possible machine vision tasks mentioned in the Summary section of Blowers corresponds to the more detailed description associated with Fig. 5 of Blowers. Fig. 5 illustrates various icons of a toolbox for vision tools that are selectable by a user. Blowers, 9:32-34. Blowers states that a user can interactively build machine vision applications for programs using the controls depicted in Fig. 5. The icons can be selected from the toolbox of Fig. 5, which icons correspond to desired functional tasks, for linking into the tree structure of Fig. 6. Blowers, 8:64-67.

Fig. 6 of Blowers shows a tree structure with a root labeled "Product Name," which corresponds to the product folder described in column 10, lines 17-22, of Blowers. In this passage, Blowers states that the product folder represents the lowest level of the tree structure. Significantly, Blowers also states that "[o]nly *one* product folder can be viewed from the task sequencer at one time." Blowers, 10:19-20 (emphasis added). The limitation in Blowers that only *one* product folder can be viewed at one time is inconsistent with the ability of a first panel configured to present plural *devices* and associated commands of a sequence as a hierarchical tree structure, as recited in claim 1.

Claim 1 clearly sets out that the sequence, presented as a hierarchical tree structure, includes devices (note *plural sense*) and associated commands, where each of the devices in the sequence is at a different hierarchical level than a hierarchical level of the one or more commands associated with the device. In Fig. 6 of Blowers (and also in Figs. 7-9 of Blowers), there is only *one* device depicted, which corresponds to the "Product Name" folder. The remaining icons depicted in Fig. 6 correspond to functional tasks. *See* Blowers, 8:59-67 (stating that the graphical representations or icons selected from the toolboxes of Fig. 5 correspond to desired *functional tasks* that are linked into the tree structure of Fig. 6). For example, as depicted in Fig. 6, the functional tasks include: acquire, alignment, and so forth.

In view of the foregoing, it is clear that Blowers does not disclose each and every element of claim 1 (and its dependent claims).

Therefore, reversal of the final rejection of the above claims is respectfully requested.

2.   Claim 6.

Claim 6 depends from claim 1, and is allowable for at least the same reasons as claim 1. Moreover, claim 6 recites that the presented results (in the second window) include a start time

and an end time associated with execution of each command. The Examiner cited column 9, lines 16-25, of Blowers as disclosing this feature. 4/10/2006 Office Action at 4. The cited passage of Blowers refers to a rolling results window depicted in Fig. 9. Although the results window in Fig. 9 of Blowers indicates "Time Taken," this rolling window does not present a start time and end time associated with execution of each command. Therefore, the additional subject matter recited in claim 6 is not disclosed by Blowers.

In view of the foregoing, reversal of the final rejection of the above claim is respectfully requested.

3. Claim 7.

Claim 7 depends from claim 1, and is thus allowable for at least the same reasons as claim 1. Moreover, claim 7 recites that the presented results include information defining an iteration associated with a displayed command. The Examiner cited column 9, lines 16-25, of Blowers as disclosing this feature. 4/10/2006 Office Action at 4. Again, the cited passage refers to the rolling results window in Fig. 9 of Blowers. There is nothing in the rolling results window in Fig. 9 of Blowers that defines an *iteration* associated with a displayed command.

In view of the foregoing, reversal of the final rejection of the above claim is respectfully requested.

4. Claim 9.

Claim 9 depends from claim 1, and is thus allowable for at least the same reasons as claim 1. Moreover, claim 9 recites that the presented results include a device associated with a displayed command. The Examiner cited to column 9, lines 7-25, of Blowers as disclosing this feature. The cited passage refers to Figs. 7-9. Figs. 7 and 8 of Blowers do not depict windows

that present results. Fig. 7 shows a pop-up screen that illustrates blob properties, and Fig. 8 shows a pop-up screen that shows alignment properties. The rolling results window in Fig. 9 of Blowers does not provide presented results that include a *device* associated with a displayed command.

In view of the foregoing, reversal of the final rejection of the above claim is respectfully requested.

5.   Claim 11.

Claim 11 depends from claim 1, and is thus allowable for at least the same reasons as claim 1. Moreover, claim 11 recites that the second window displays a unique iteration number identifier for each of one or more iterations of the sequence, where each of the iteration number identifiers uniquely identifies a particular iteration of the sequence. Also, claim 11 recites that when a user selects one of the unique iteration number identifiers, information describing each command executed during the iteration associated with the selected iteration number identifier is displayed on the display device.

The Examiner cited column 9, lines 7-25, of Blowers as disclosing this feature. 4/10/2006 Office Action at 5. The cited passage refers to Figs. 7-9, none of which discloses a window to display a unique iteration number identifier for each of one or more iterations of a sequence, nor do the figures or cited passage of Blowers disclose a unique iteration number identifier that a user can select to cause information describing each command executed during the iteration to be displayed.

In view of the foregoing, reversal of the final rejection of the above claim is respectfully requested.

6.   Claim 12.

Claim 12 depends from claim 11, and is thus allowable for at least the same reasons as claim 11. Moreover, claim 12 recites that the information displayed in response to user selection of a unique iteration number identifier includes a start time and an end time, information identifying the iteration associated with each command, and a device associated with each command. The Examiner cited column 9, lines 7-25, of Blowers as disclosing this feature. 4/10/2006 Office Action at 5. The cited passage refers to Figs. 7-9, none of which discloses information that contains a start time and end time, information identifying the iteration associated with each command, *or* a device associated with each command.

In view of the foregoing, reversal of the final rejection of the above claim is respectfully requested.

7.   Claim 39.

Claim 39 depends from claim 1, and is thus allowable for at least the same reasons. Moreover, claim 39 recites that execution of the sequence causes communication with the devices identified by the sequence.

The Examiner cited column 9, lines 7-25, of Blowers as disclosing this feature. 4/10/2006 Office Action at 6. The cited passage refers to Figs. 7-9, and mentions that execution of sequences are top down in nature, "except where redirected," and that once a desired sequence has been created, it can be stored or saved in an inspection sequence file that is usable by an engine 46. The cited passage of Blowers also states that the engine 46 can taken the stored sequence and execute it through the runtime screen of Fig. 9, where the engine 46 is interlinked with a results engine for communicating results obtained by executed the sequence. There is

absolutely no mention in the cited passage of Blowers that execution of the sequence causes communication with devices identified by the sequence.

Even more fundamentally, as discussed in the arguments with respect to claim 1 above, only one device is depicted in Fig. 6 of Blowers. Thus, it would be impossible for Blowers to disclose that execution of a sequence causes communication with the devices (note plural sense) identified by the sequence, where the sequence of Blowers shows only *one* device.

In view of the foregoing, reversal of the final rejection of the above claim is respectfully requested.

8.   Claim 42.

Claim 42 depends from claim 1, and is thus allowable for at least the same reasons as claim 1. Moreover, claim 42 recites that execution of the sequence causes testing of the devices identified in the sequence.

The Examiner cited column 9, lines 1-6, and Figs. 7-9, of Blowers as disclosing this feature. 4/10/2006 Office Action at 6. The cited column 9 passage mentions that the task sequence generation window illustrated in Figs. 7-9 of Blowers allows the user to acquire an image from a camera, process the image, find rotation, set origin, set x axis, find model, find edge, blob, caliper, interact with I/O, and decisional branch. However, there is no teaching that execution of the sequence causes testing of the devices identified in the sequence. Even more fundamentally, since the sequence of Blowers depicts just *one* device, it is impossible for Blowers to disclose that execution of the sequence causes testing of the devices (note plural sense) identified in the sequence.

In view of the foregoing, reversal of the final rejection of claim 42 is respectfully requested.

9.   **Claim 53.**

Claim 53 depends from claim 1, and is thus allowable for at least the same reasons as claim 1. Moreover, claim 53 recites that the first panel is configured to further present at least a step of the sequence, where the step *includes* at least one of the devices and the one or more commands associated with the at least one device, and where the step is at a hierarchical level that is different from the at least one device.

Note that claim 53 recites that the step includes the at least one of the devices. In the Office Action, the Examiner merely paraphrased the language of claim 1, without providing any cites to Blowers regarding how Blowers discloses this feature of claim 53. In fact, as shown in Fig. 6 of Blowers, the "Product Name" folder is the root of the tree structure depicted in Fig. 6. Therefore, it would be impossible for a step to include the product depicted in Fig. 6 of Blowers; thus, Blowers clearly does not teach that a step *includes* at least one of the devices and one or more commands associated with the at least one device.

In view of the foregoing, reversal of the final rejection of the above claim is respectfully requested.

10.   **Claims 14, 15, and 44.**

Claim 14 was also improperly rejected as being anticipated by Blowers. With respect to claim 14, Blowers does not disclose displaying results of execution of a sequence, in which the results displayed contain the commands in the sequence and information identifying devices associated with the commands. In Blowers, in Fig. 9, the "sequence 33 results" screen identifies commands (acquire, alignment, template, blob), a job (job 1), a conditional statement (if ... then ... else ...), but does *not* identify devices associated with any commands.

In rejecting claim 14, the Examiner stated that claim 14 is a method version of claims 1, 2, and 5-10, and thus are rejected for the same reasons as those claims. 4/10/2006 Office Action at 6. Claim 9 recites that the presented results include a device associated with a displayed command. In the rejection of claim 9, the Examiner cited column 9, lines 7-25, of Blowers. This passage refers to execution of a sequence by an engine 46, where the engine 46 is linked to a results engine 56 for communicating results obtained by executing the sequence. The cited passage in column 9 of Blowers also states that the engine 56 provides results in a rolling results window depicted in Fig. 9. However, as explained above, Fig. 9 of Blowers does not display results that contain commands in the sequence and information identifying devices associated with the commands, as recited in claim 14.

Therefore, Blowers does not anticipate claim 14 (and its dependent claims). Reversal of the final rejection of the above claims is respectfully requested.

11.   Claims 19, 21, and 22.

Claim 19 depends from claim 14, and is allowable for at least the same reasons as claim 14. Moreover, claim 19 recites that the presented results (in the second window) include a start time and an end time associated with execution of each command. With respect to claim 6, the Examiner cited column 9, lines 16-25, of Blowers as disclosing this feature. 4/10/2006 Office Action at 4. The cited passage of Blowers refers to a rolling results window depicted in Fig. 9. Although the results window in Fig. 9 of Blowers indicates "Time Taken," this rolling window does not present a start time and end time associated with execution of each command. Therefore, Blowers does not anticipate claim 19 and its dependent claims.

In view of the foregoing, reversal of the final rejection of the above claims is respectfully requested.

12.   Claim 20.

Claim 20 depends from claim 19, and is thus allowable for at least the same reasons as claim 19. Moreover, claim 20 recites that the presented results include information defining an iteration associated with a displayed command. With respect to claim 7, the Examiner cited column 9, lines 16-25, of Blowers as disclosing this feature. 4/10/2006 Office Action at 4. Again, the cited passage refers to the rolling results window in Fig. 9 of Blowers. There is nothing in the rolling results window in Fig. 9 of Blowers that defines an iteration associated with a displayed command.

In view of the foregoing, reversal of the final rejection of the above claim is respectfully requested.

13.   Claim 54.

Claim 54 depends from claim 14, and is thus allowable for at least the same reasons as claim 14. Moreover, claim 54 recites that displaying the sequence comprises displaying the sequence as a hierarchical tree structure, where each of the devices (note plural sense) in the sequence is at a different hierarchical level of the hierarchical tree structure than a hierarchical level of one or more commands associated with the device.

As explained above with respect to claim 14, it is clear that Blowers does not disclose a sequence having plural devices. Therefore, reversal of the final rejection of claim 54 is respectfully requested.

14.   Claim 55.

Claim 55 depends from claim 14, and is thus allowable for at least the same reasons as claim 14. Moreover, claim 55 recites that the first panel is configured to further present at least a

step of the sequence, where the step *includes* at least one of the devices and the one or more commands associated with the at least one device, and where the step is at a hierarchical level that is different from the at least one device.

Note that claim 55 recites that the step *includes* the at least one of the devices. As shown in Fig. 6 of Blowers, the "Product Name" folder is the root of the tree structure depicted in Fig. 6. Therefore, it would be impossible for a step to include the product depicted in Fig. 6 of Blowers; thus, Blowers clearly does not teach that a step includes at least one of the devices and one or more commands associated with the at least one device.

In view of the foregoing, reversal of the final rejection of the above claim is respectfully requested.

15.   Claims 46-48 and 56.

Independent claim 46 is also not anticipated by Blowers. Claim 46 recites displaying a sequence of steps on a display device, where the steps *include* respective devices and commands. As noted in Blowers, the product folder, indicated as being a "Product Name" icon in Fig. 6, represents the root of a tree structure. Therefore, to the extent that the product folder is considered as being the device recited in claim 46, it is noted that the product folder of Blowers cannot be included in a step, as recited in claim 46.

In the rejection of claim 46, the Examiner cited rejections of claims 5-11 and 42. 4/10/2006 Office Action at 7. It is noted that none of claims 5-11 and 42 recites displaying a sequence of steps on a display device, where the steps *include* respective devices and commands. Therefore, the Examiner has failed to provide specific reasons regarding how Blowers discloses each and every element of claim 46.

Blowers therefore does not anticipate claim 46 (and its dependent claims). Reversal of the final rejection of the above claims is respectfully requested.

16.   Claim 49.

Claim 49 depends from claim 46, and is thus allowable for at least the same reasons as claim 1. Moreover, claim 49 recites that execution of the sequence causes testing of the devices identified in the sequence.

With respect to claim 42, the Examiner cited column 9, lines 1-6, and Figs. 7-9, of Blowers as disclosing this feature. The cited column 9 passage mentions that the task sequence generation window illustrated in Figs. 7-9 of Blowers allows the user to acquire an image from a camera, process the image, find rotation, set origin, set x axis, find model, find edge, blob, caliper, interact with I/O, and decisional branch. However, there is no teaching that execution of the sequence causes testing of the devices identified in the sequence. Even more fundamentally, since the sequence of Blowers depicts just *one* device, it is impossible for Blowers to disclose that execution of the sequence causes testing of the devices (note plural sense) identified in the sequence.

In view of the foregoing, reversal of the final rejection of claim 49 is respectfully requested.

17.   Claim 50.

Claim 50 depends from claim 46, and is allowable for at least the same reasons as claim 46. Moreover, claim 50 recites that the presented results include a start time and an end time associated with execution of each command. With respect to claim 6, the Examiner cited column 9, lines 16-25, of Blowers as disclosing this feature. 4/10/2006 Office Action at 4. The

passage of Blowers refers to a rolling results window depicted in Fig. 9. Although the results window in Fig. 9 of Blowers indicates "Time Taken," this rolling window does not present a start time and end time associated with execution of each command. Therefore, the additional subject matter recited in claim 50 is not disclosed by Blowers.

In view of the foregoing, reversal of the final rejection of the above claim is respectfully requested.

18.   Claim 51.

Claim 51 depends from claim 46, and is thus allowable for at least the same reasons as claim 46. Moreover, claim 51 recites that the displayed results contain results for plural iterations of the sequence. The Examiner did not specifically cite how Blowers discloses results for *plural iterations* of the sequence. *See* 4/10/2006 Office Action at 7. Nevertheless, it is clear that the rolling results window in Fig. 9 of Blowers does not contain results for plural iterations of a sequence.

Reversal of the final rejection of the above claim is therefore respectfully requested.

19.   Claim 52.

Claim 52 depends from claim 46, and is thus allowable for at least the same reasons as claim 46. Moreover, claim 52 recites that the displayed results contain information associated with one or more remote devices tested by the execution of the sequence. The Examiner did not identify specifically where in Blowers this feature of claim 52 is taught. *See* 4/10/2006 Office Action at 7. The rolling results window in Fig. 9 of Blowers clearly does not contain information associated with one or more *remote devices* tested by execution of the sequence.

Reversal of the final rejection of the above claim is therefore respectfully requested.

B. **Claims 34 And 35 Rejected Under 35 U.S.C. § 103 Over Blowers In View Of U.S. Patent No. 6,587,969 (Weinberg).**

1. **Claims 34 and 35.**

Independent claim 34 was rejected as being obvious over Blowers and Weinberg. In view of the arguments presented above with respect to claim 1, it is respectfully submitted that the hypothetical combination of Blowers and Weinberg does not teach or suggest the invention of claim 34. Specifically, the Examiner incorrectly asserted, with respect to claim 34, that Blowers discloses that the displayed sequence is in a hierarchical tree structure in which *plural* devices and associated commands are at different hierarchical levels. For at least this reason, a *prima facie* case of obviousness has not been established with respect to claim 34 since the references when combined do not teach or suggest all elements of claim 34 (and its dependent claims).

In view of the foregoing, reversal of the final rejection of the above claims is respectfully requested.

VIII. CONCLUSION

In view of the foregoing, reversal of all final rejections and allowance of all pending claims is respectfully requested.

Respectfully submitted,
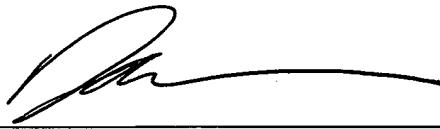
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APPENDIX OF APPEALED CLAIMS

The claims on appeal are:

1   1.   An apparatus for providing a graphical user interface (GUI) comprising:
2   logic configured to execute GUI generation code and GUI user interaction handling code;
3   and
4   a display device in communication with said logic, wherein execution of the GUI
5   generation code by said logic causes a first window and a second window to be displayed on the
6   display device, said first window presenting a first panel configured to present plural devices and
7   associated commands of a sequence as a hierarchical tree structure, each of the devices in the
8   sequence being at a different hierarchical level than a hierarchical level of one or more
9   commands associated with the device, the first window presenting a second panel configured to
10   present one or more available commands and devices for adding commands and devices to the
11   sequence, and said second window presenting results of execution of the sequence.

1   2.   The apparatus of claim 1, wherein said first and second panels are simultaneously and
2   fully viewable by a user.

1   5.   The apparatus of claim 1, wherein each of the commands comprises an argument.

1   6.   The apparatus of claim 1, wherein said presented results include a start time and an end
2   time associated with execution of each command.

1   7.   The apparatus of claim 1, wherein said presented results include information defining an
2   iteration associated with a displayed command.

1   8.   The apparatus of claim 1, wherein said presented results include a step associated with a
2   displayed command.

1   9.   The apparatus of claim 1, wherein said presented results include a device associated with

2   a displayed command.

1   10.   The apparatus of claim 1, wherein said presented results include information indicating

2   whether or not a displayed command was successfully executed.

1   11.   The apparatus of claim 1, wherein said second window displays a unique iteration

2   number identifier for each of one or more iterations of the sequence, each of said iteration

3   number identifiers uniquely identifying a particular iteration of said sequence, and wherein when

4   a user selects one of said unique iteration number identifiers, information describing each

5   command executed during the iteration associated with the selected iteration number identifier is

6   displayed on said display device.

1   12.   The apparatus of claim 11, wherein said information comprises:

2   a start time and an end time associated with execution of each command that was

3   executed during the iteration associated with the selected iteration number identifier;

4   information identifying the iteration associated with each command;

5   a step associated with each command;

6   a device associated with each command; and

7   information indicating whether each command was successfully executed.

1   13.   The apparatus of claim 1, wherein the GUI generation code and the GUI user interaction

2   handling code are written in an object-oriented, platform-independent language.

1   14.   A method for enabling a user to analyze results of execution of a sequence, the sequence

2   including devices and associated commands, the method comprising:

3   presenting a first option that enables a user to open a first window;

4   displaying the first window responsive to selection of the first option, the first window

5   containing a first portion displaying the sequence and a second portion displaying a set of one or

6   more available commands for inserting into the displayed sequence;

7   presenting a second option that enables execution of the sequence; and

8   displaying, in a second window, results of execution of the sequence in response to

9   selection of the second option, the results displayed containing the commands in the sequence

10   and information identifying devices associated with the commands.

1   15.   The method of claim 14, wherein said first and second portions are capable of being

2   simultaneously and fully viewable by a user.

1   19.   The method of current claim 14, wherein displaying the results of the execution

2   comprises displaying a start time and an end time associated with execution of each command of

3   the sequence.

1   20.   The method of claim 19, wherein displaying the results of the execution further

2   comprises displaying information identifying an iteration of the sequence associated with a

3   displayed command.

1   21.   The method of claim 19, wherein displaying the results of the execution comprises

2   displaying information identifying each step associated with a displayed command.

1   22.   The method of claim 19, wherein displaying the results of the execution comprises

2   displaying information indicating whether a displayed command was successfully executed.

1　34.　An apparatus, comprising:

2　　　　a processor configured to execute logic configured to generate a graphical user interface

3　(GUI), logic configured to interact with at least one human to machine interface, and logic

4　configured to generate commands applied to control systems within one or more remote devices;

5　and

6　　　　a display device in communication with said processor, wherein when said processor

7　executes the logic configured to generate the GUI, a first window is displayed on the display

8　device that displays both a sequence in a first portion of the first window and a list of one or

9　more commands in a second portion of the first window, the displayed sequence being in a

10　hierarchical tree structure in which plural devices and associated commands are at different

11　hierarchical levels

12　　　　wherein said first window presents an option, the selection of which executes the

13　sequence,

14　　　　wherein when a second option is selected, the display device displays a second window

15　displaying summary data regarding execution of the sequence.

1　35.　The apparatus of claim 34, wherein the one or more remote devices comprise devices

2　configured to house and manipulate data storage media.

1　39.　The apparatus of claim 1, wherein execution of the sequence causes communication with

2　the devices identified by the sequence.

1　41.　The apparatus of claim 1, further comprising a memory to store a file containing the

2　results of the execution of the sequence,

3　　　　wherein the second window presents the results of the execution of the sequence in

4　response to selection of a displayed option that enables opening of the file.

1　42.　The apparatus of claim 1, wherein the execution of the sequence causes testing of the

2　devices identified in the sequence.

1   44.   The method of claim 14, further comprising:

2   storing the results of execution of the sequence in a file; and

3   in response to receiving user activation of a displayed option, open the file to enable

4   displaying the results in the second window.

1   46.   A computer-readable medium storing a computer program for generating a graphical user

2   interface (GUI), the program when executed causing a computer to:

3   display a sequence of steps on a display device, the steps including respective devices

4   and commands;

5   display at least one of a list of available devices and a list of available commands that are

6   insertable into the sequence for editing the sequence in response to selection of a displayed first

7   option;

8   activate execution of the sequence in response to selection of a displayed second option;

9   and

10   display results of the execution of the sequence in a first window.

1   47.   The computer-readable medium of claim 46, wherein the program when executed causes

2   the computer to display the sequence of steps and the at least one of the list of available devices

3   and list of available commands in a second window.

1   48.   The computer-readable medium of claim 46, wherein the program when executed causes

2   the computer to remove at least one of a step, device, and command from the sequence in

3   response to selection of a displayed third option.

1   49.   The computer-readable medium of claim 46, wherein execution of the sequence causes

2   testing of one or more devices identified in the sequence.

1   50.   The computer-readable medium of claim 46, wherein the displayed results contain a start

2   time and an end time associated with execution of each command in the sequence.

1   51.   The computer-readable medium of claim 46, wherein the displayed results contain results

2   for plural iterations of the sequence.

1   52.   The computer-readable medium of claim 46, wherein the displayed results contain

2   information associated with one or more remote devices tested by the execution of the sequence.

1   53.   The apparatus of claim 1, wherein the first panel is configured to further present at least a

2   step of the sequence, the step including at least one of the devices and the one or more

3   commands associated with the at least one device, wherein the step is at a hierarchical level that

4   is different from the at least one device.

1   54.   The method of claim 14, wherein displaying the sequence comprises displaying the

2   sequence as a hierarchical tree structure, each of the devices in the sequence being at a different

3   hierarchical level of the hierarchical tree structure than a hierarchical level of one or more

4   commands associated with the device.

1   55.   The method of claim 14, wherein the sequence further comprises at least one step that

2   includes at least one device and one or more commands associated with the at least one device,

3   and wherein displaying the sequence comprises displaying the sequence as a hierarchical tree

4   structure, the at least one step, the at least one device, and the associated one or more commands

5   being at different hierarchical levels in the tree structure.

1   56.   The computer-readable medium of claim 46, wherein the sequence is displayed as a

2   hierarchical tree structure containing the steps, devices, and commands, each step at a

3   hierarchical level different from the respective hierarchical levels of the devices and commands

4   included in the corresponding step.

EVIDENCE APPENDIX

None.

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RELATED PROCEEDINGS APPENDIX

None.